**Food Project: Homework**

**Nomen: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Datum: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*This worksheet is your record for all of the pieces of information necessary to successfully complete this project.*

Step 1: Calculating *how long it takes to purchase and cook the food, and then to clean up the kitchen.*

**1.** You will be counting up how long it takes for you to:

**a.** acquire all the food for the meal (traveling to and from the grocery, time at the grocery)

**b.** prepare and then cook the food

**c.** clean up the kitchen and store/pack the meal.

**a. Travel Time/Time at Grocery: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**b. Time Prepping/Cooking Food: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**c. Time Cleaning up/Storing Meal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**d. Total Time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Step 2: You will need to calculate the cost of this meal. *To do this, you will have to* ***use the same process as you did for calculating the cost of the recipe in Roman currency.***

***\*Remember that you can find the price of the ingredient, plus the amount of ingredient you purchased, on the package that it comes in.***

***\*If you need help, ask your parents!***

*Please use this unit conversion chart (which you already used for the Roman costs) to complete step 2:*

***Unit Conversion Chart:***

*use this chart to help you find out* ***how much of each ingredient you are using*** *in your meal, and therefore,* ***how much each amount of your ingredient costs.***

*1 gallon = 16 cups*

*1 cup = 8 ounces*

*1 ounce = 2 tablespoons*

*1 tablespoon = 3 teaspoons*

*1 cup = 16 tablespoons*

*1 cup = 48 teaspoons*

*1 gallon = 128 ounces*

**A.** *Calculate how much each ingredient amount costs for your meal.* In order to do this, you will need to use math that *will take a few steps to calculate correctly. Use a separate sheet of paper to complete this work!*

***Step 1: Write out in a list:***

***a. ingredient:***

***b. ingredient cost:***

***c. amount of ingredient per cost:***

***d. amount of ingredient used in recipe:***

***Step 2: Set up your equation:***

***B (ingredient cost): \_\_\_\_\_\_\_\_\_\_ = C (amount of ingredient per cost): \_\_\_\_\_\_\_\_\_ =***

***D (amount of ingredient used in recipe): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Step 3: Make sure that C and D are written in the same unit of measurement:***

***C: \_\_\_\_\_\_\_\_\_\_\_\_ D: \_\_\_\_\_\_\_\_\_\_\_\_\_***

***Step 4: Make C and D equal:***

***C: \_\_\_\_\_\_\_\_\_\_\_\_ = D: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Step 5: Divide/Multiply B by the same number as you used in Step 4:***

***B: \_\_\_\_\_\_\_\_\_\_\_\_***

***= D: \_\_\_\_\_\_\_\_\_\_\_\_\_***

**B.** Total cost of meal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Step 3: Now, you will need to *calculate how long you would have to work* ***at minimum wage in DC*** *to afford this meal.*

**A. Minimum wage in DC: 10.10 an hour.**

**B. Cost of meal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Equation: (Cost of Meal) / (10.10) = Number of hours you need to work to pay for the meal.**

**Equation:**

**Number of hours to work to afford this meal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Step 4: Drawing Conclusions:

*For the following questions, please answer with complete sentences.*

**1. Compare the amount of time it takes to pay for your meal in Roman times versus in modern times. Which is longer?**

**2. What other possible costs would you have in everyday life in ancient Rome?**

**3. If you don’t have a job, what can you do to get food? Answer for both the ancient world, and for the modern world.**

**Ancient World:**

**Modern World:**

**4. Eventually, you will stop working because you are too old. When you are too old, what are at least two ways you can legally continue to afford to pay for things?** *You may ask your parents for help on this question!*